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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/803,319	03/09/2001	Daniel G. Anderson	0492611-0392 5731 (MIT-9128)	
75	90 09/07/2004		EXAM	INER
Sam Pasternack			SHIBUYA, MARK LANCE	
Choate, Hall &	Stewart			
53 State Street			ART UNIT	PAPER NUMBER
Boston, MA 02109			1639	
			DATE MAIL ED. 00/07/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/803,319	ANDERSON ET AL.			
		Examiner	Art Unit			
		Mark L. Shibuya	1639			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a report of the provision of the provision of the maximum statutory perior to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. 8 133)			
Status						
2a)⊠	Responsive to communication(s) filed on <u>15.</u> This action is <b>FINAL</b> . 2b) The Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro				
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-58</u> is/are pending in the applicatio 4a) Of the above claim(s) <u>7,12,13,21-56 and solution</u> is/are allowed.  Claim(s) <u>1-6,8-11,14-20 and 57</u> is/are rejected Claim(s) is/are objected to.  Claim(s) are subject to restriction and/	<u>58</u> is/are withdrawn from considera ed.	tion.			
Applicati	on Papers					
10)	The specification is objected to by the Examin The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	cepted or b) objected to by the E e drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	inder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment	r(s)					
1)  Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 ' No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da  5) Notice of Informal Pa  6) Other:				

#### **DETAILED ACTION**

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1. Claims 1-58 are pending. Claims 1-6, 8-11, 14-20, and 57 are rejected. Claims 7, 12, 13, 21-56 and 58 are withdrawn from consideration as drawn to a non-elected invention.

## Claim Rejections - 35 USC § 112

Claim Rejections - 35 USC § 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-6, 8-11, 14-20, and 57 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. This rejection is necessitated by applicant's amendments to the claims, filed 7/15/2004.

The term "relatively smooth" in claims 1 and 2 is a relative term which renders the claim indefinite. The term "relatively smooth" is not defined by the claim or the specification, the specification does not provide a standard for ascertaining the requisite degree of smoothness, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. The term "relatively smooth", in describing the surface of a base, is vague.

## Claim Rejections - 35 USC § 112

Claim Rejections - 35 USC § 112, First Paragraph

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-6, 8-11, 14-20, and 57 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This is a *New Matter Rejection*. This rejection is necessitated by applicant's amendments to the claims, filed 7/15/2004. This rejection is necessitated by applicant's amendments to the claims, filed 7/15/2004.

Claims have been amended to recite the limitation "substantially smooth"; there is no support in the specification for this limitation. Applicant has not pointed to where, in the specification as filed, support for this limitation is to be found. The specification does not describe the surface of a base as being smooth, and does not disclose how substantial smoothness of the base is part of the claimed invention.

### Claim Rejections - 35 USC § 103

# Maintained Claim Rejection

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

4. Claims 1-6, 8-11, 14-20, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saltzman et al. (J. Biomed. Mat. Res., Vol. 25, pp. 741-759, 1991) in view of Kapur et al., (US 6,548,263) and Shultz et al. (US 5,985,356). This rejection is maintained for the reasons of record, as set forth in the previous Office action mailed 11/21/2003.

# Response to Arguments

Applicant's arguments filed 5/24/2004 and applicant's amendments to the claims, filed 7/15/2004, have been fully considered but they are not persuasive.

The examiner respectfully submits that applicant's traversal of the obviousness rejection appears to be that not all elements are taught by the references. Applicant, in the Reply filed 5/24/04 at p. 7, para 2, argues that the reference of Kapur "does not remedy the failure of Saltzman to disclose an array." Applicant argues that Kapur teaches glass wafers coated with aminosilane that form monolayers through self-assembly; so that the reference of Kapur does not meet the requirement of claim 1, that the polymer is non-covalently bound to the surface; and Kapur does not meet the requirement of claim 2 that the polymer elements are not monolayers. Furthermore, applicant argues that the combination of Schultz and Saltzman fails to suggest a plurality of polymeric elements bound to a substantially smooth cytophobic surface.

As applicant observes in the Reply filed 5/24/04 at p. 6, para 2, the reference of Saltzman et al., at p. 743 teaches coating glass coverslips with thin films of polymers by spin-coating. Furthermore, Saltzman et al. at p. 743, para 3 - p. 744, para 2, teach securing these coverslips into machined blocks of solid polycarbonate sheets to form 6-well plates, i.e., an array. The spin-coated thin films of polymers that coat the coverslips of Saltzman are not, absent evidence to the contrary, monolayers. Also, these thin films are not covalently bound to the surface. As to the limitation that the polymeric elements are bound to a substantially smooth cytophobic surface, it is respectfully noted that the specification at p. 5, lines 9 – 28, contemplates an embodiment of the claimed invention wherein the base can be glass, plastic, metal or ceramic and wherein the base may be a modified light microscope slide or coverslip. Thus the reference of Saltzman et al. teaches, absent evidence to the contrary, a substantially smooth cytophobic surfaces in an array to which polymeric elements are non-covalently bound.

#### Conclusion

- 5. Claims 1-6, 8-11, 14-20, and 57 are rejected. Claims 7, 12, 13, 21-56 and 58 are withdrawn from consideration.
- 6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**.

See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark L. Shibuya whose telephone number is (571) 272-0806. The examiner can normally be reached on M-F, 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on (571) 272-0811. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PADMASHRI PONNALUR PRIMARY EXAMINER Mark L. Shibuya Examiner Art Unit 1639

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